

Brian Yang

Full Stack Developer

brianjsyang@gmail.com · [linkedin.com/in/brianjsyang](https://www.linkedin.com/in/brianjsyang) · brianjsyang.ca

Professional Summary

Full Stack Developer with 4+ years of experience building and maintaining production SaaS systems at scale. Strong foundation in PHP backend development, MySQL, AWS infrastructure, and end-to-end feature ownership. Comfortable working across the full stack in fast-moving environments where reliability, code quality, and taking ownership matter. Currently expanding into Go, REST API design, and component-based React development through active project work.

Professional Experience

Brixwork Real Estate Marketing – Full Stack Developer *March 2022 - Present*
Proprietary B2B SaaS CMS and platform serving 300+ real estate business clients across Canada.

- **Object-Oriented Backend Development:** Worked daily with a production class-based PHP architecture covering domain objects including listings, buildings, agents, pages, and users. Each class encapsulates its own properties, database initialization logic, and domain-specific methods. Extended and maintained these classes as part of regular feature development.
- **Backend Endpoint Development:** Built and maintained internal PHP endpoints handling requests from the frontend, processing business logic, querying MySQL, and returning structured JSON. Built with input validation, error handling, and consistent response structure throughout. Also developed a production-facing endpoint for an AI metadata generator with request validation, rate limiting, and external service integration.
- **Relational Database Design and Performance:** Worked with a normalized MySQL database consolidating listing data from multiple MLS providers across Canada into a unified internal schema. Diagnosed and resolved a critical query performance issue by redesigning query patterns and implementing stored generated columns with composite indexes, reducing execution time roughly 10x (17ms to 2ms).

- **Third-Party Data Integration:** Integrated multiple MLS data providers with differing schemas into one internal database, handling data normalization, error handling, and scheduled synchronization via cron-based polling.
- **Distributed Platform Maintenance:** Built and maintained a shared-codebase CMS deployed across 300+ independent client environments. Every schema update, feature, and bug fix had to work correctly across all environments without regressions, developing strong habits around deployment safety and thinking carefully about how changes ripple through systems at scale.
- **Legacy System Modernization:** Played a key role in rebuilding parts of a 10-year-old codebase, removing deprecated dependencies, resolving production bugs, and improving long-term maintainability. Authored internal documentation to support ongoing system understanding.
- **Cloud Infrastructure and Reliability:** Managed AWS infrastructure including EC2, S3, and Route 53. Executed a zero-downtime server migration that reduced infrastructure costs by roughly 30%.
- **Security and Access Control:** Built and maintained role-based access control across a multi-tenant SaaS environment, managing feature access and data visibility based on user permissions.
- **AI-Assisted Development:** Used Claude Code and Augment Code with full codebase context as part of regular development workflow, applying AI tools for feature planning, code review, and frontend scaffolding.

Freelance – Web Developer *Nov 2022 – May 2024*

- Built and launched client websites on WordPress, Shopify, and React, managing full lifecycle from requirements through hosting setup and go-live.

Projects

Headless CMS Platform (Next.js / Payload CMS): Co-leading development of a new service line using Next.js, TypeScript, Tailwind CSS, and Payload CMS. Responsible for system design, frontend implementation, and CMS configuration.

AI Listing Metadata Generator: Co-developed an OpenAI-powered tool integrated into a production CMS that generates SEO and GEO-optimized metadata from listing data. Built with Python and the OpenAI API, using GitHub Actions and Docker throughout the development cycle.

Technical Skills

Languages and Backend: PHP (OOP, class-based architecture), SQL, JavaScript (ES6+), Python; currently expanding into Go and TypeScript

APIs and Integrations: Internal PHP endpoint development, third-party API integrations, cron-based data synchronization

Databases: MySQL (schema design, normalization, indexing, query optimization)

Cloud and DevOps: AWS (EC2, S3, Route 53), Docker, GitHub Actions

AI Tools: Claude Code, Augment Code, OpenAI API, prompt engineering

Other: RBAC, performance debugging, root cause analysis, legacy system modernization, technical documentation

Education

Langara College – Associate of Science, Computer Science *Jan 2019 – Jul 2021*